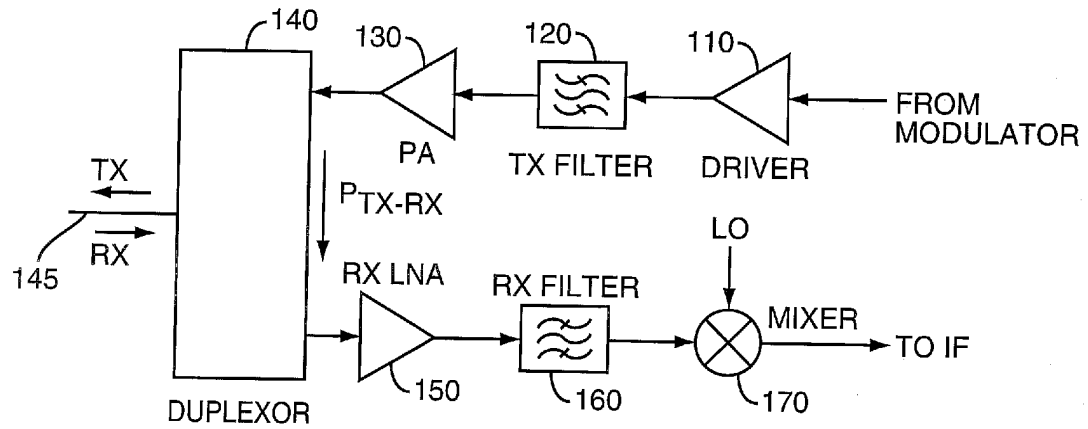
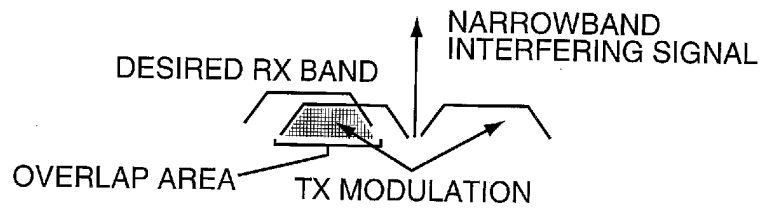


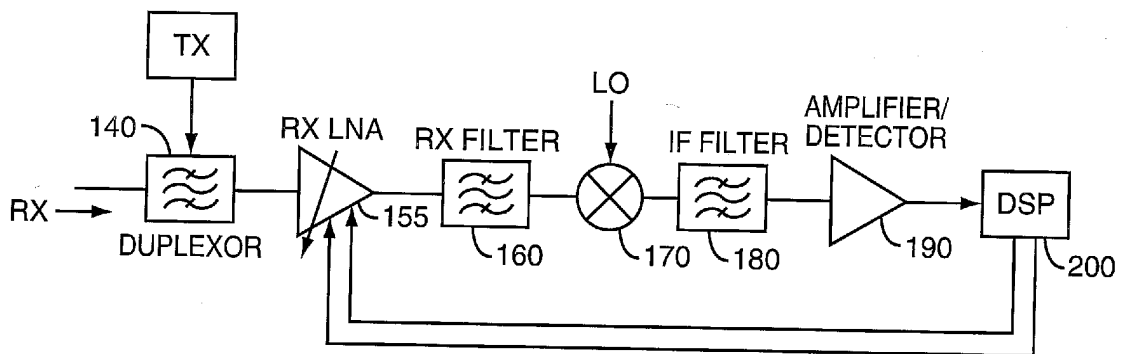
# REPLACEMENT SHEET



**FIG. 1**  
**PRIOR ART**

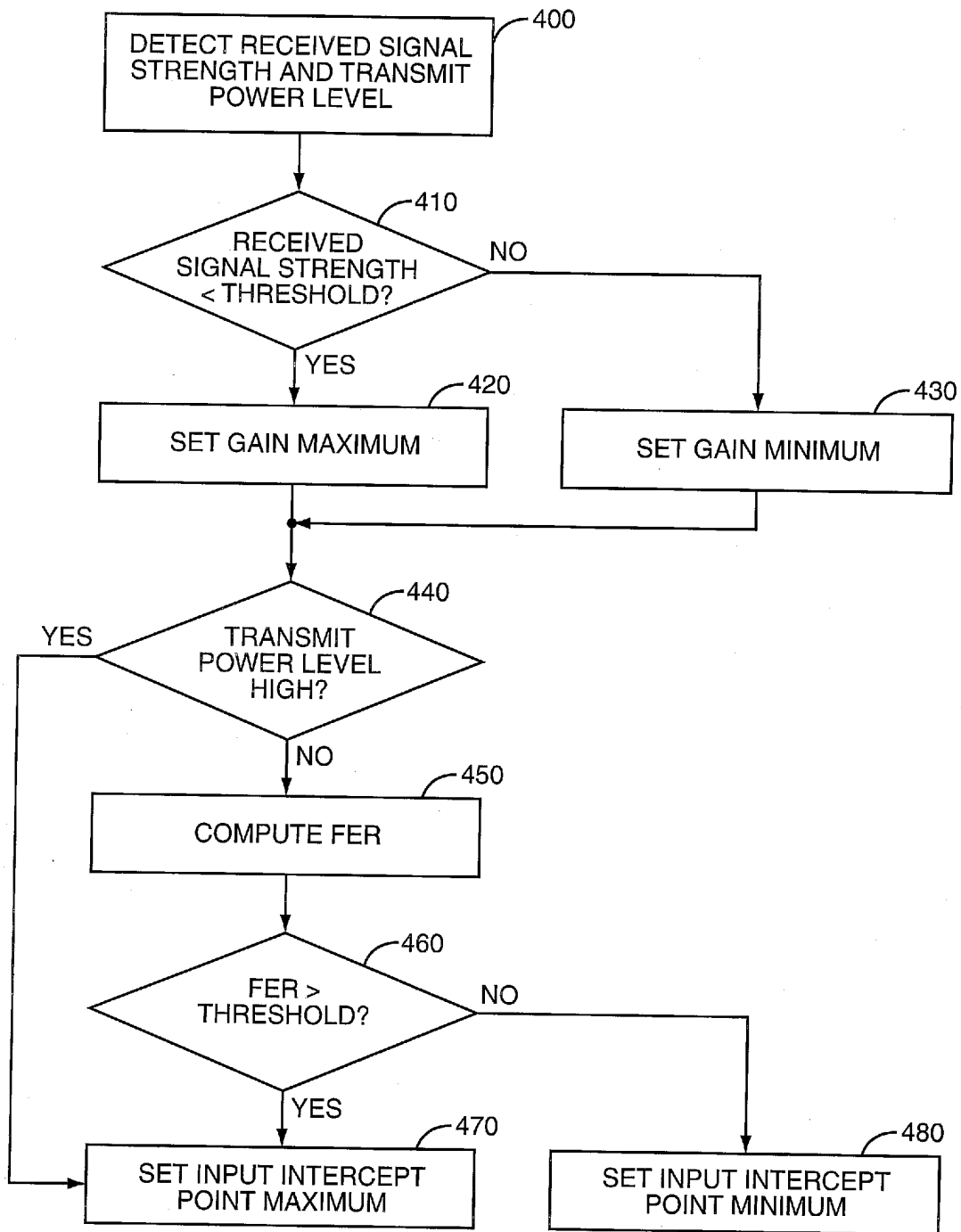


**FIG. 2**  
**PRIOR ART**



**FIG. 3**

REPLACEMENT SHEET



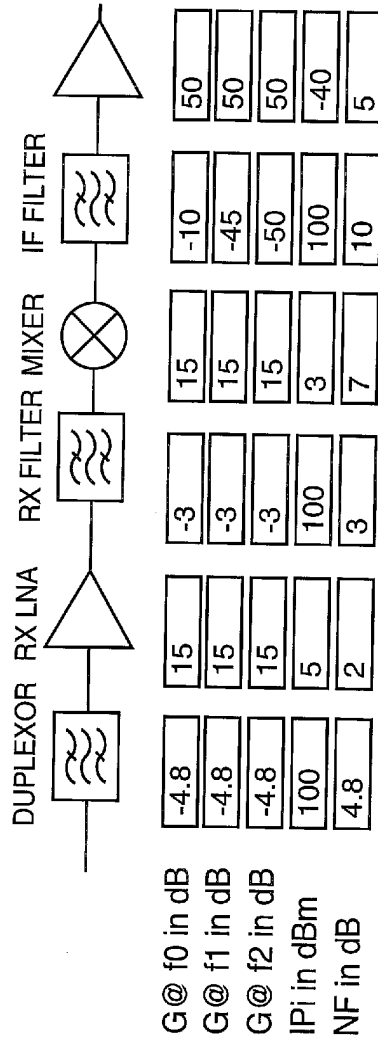
**FIG. 4**

CDMA Receiver System Calculator									
<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: left;"> <p>VERSION 1.10</p> <p>TITLE:</p> <p>Typical IS-95 CDMA Receiver, Operational State 1</p> </div> <div style="text-align: center;"> <p>DUPLEXOR   RX LNA   RX FILTER   MIXER   IF FILTER</p> </div> </div>									
G@ f0 in dB	-4.8	15	-3	15	-10	50			
G@ f1 in dB	-4.8	15	-3	15	-45	50			
G@ f2 in dB	-4.8	15	-3	15	-50	50			
IPi in dBm	100	15	100	3	100	-40			
NF in dB	4.8	2	3	7	10	5			
							<p>Calculated System Parameters</p> <p>System NF = 7.65 dB</p> <p>System IPi = -5.00 dBm</p> <p>Sensitivity = -106.32 dBm</p> <p>System Gain = 62.2 dB</p>		
							<p>System BW [kHz]</p> <p>Eb/No Required [dB]</p> <p>Processing Gain [dB]</p> <p>Traffic Ch. Offset [dB]</p>		
							<p>1250</p> <p>4.5</p> <p>21.07</p> <p>-15.60</p>		

FIG. 5A

TITLE:

### Typical IS-95 CDMA Receiver, Operational State 2



System BW [kHz]

Eb/No Required [dB]

Processing Gain [dB]

Traffic Ch. Offset [dB]

### Calculated System Parameters

System NF = 7.65 dB

System IPI = -5.13 dBm

Sensitivity = -106.32 dBm

System Gain = 62.2 dB

**FIG. 5B**

CDMA Receiver System Calculator

VERSION 1.10

TITLE:

Typical IS-95 CDMA Receiver, Operational State 3

DUPLEXOR

RX LNA

RX FILTER

MIXER

IF FILTER

G @ f0 in dB

G @ f1 in dB

G @ f2 in dB

IPI in dBm

NF in dB

-4.8

-4.8

-4.8

100

4.8

-5

-5

-5

5

22

-3

-3

-3

100

3

15

15

15

3

7

-10

-45

-50

100

10

50

50

50

-40

5

System BW [kHz]

Eb/No Required [dB]

Processing Gain [dB]

Traffic Ch. Offset [dB]

1250

4.5

21.07

-15.60

Calculated System Parameters

System NF = 27.6 dB

System IPI = 8.65 dBm

Sensitivity = -86.323 dBm

System Gain = 42.2 dB

FIG. 5C


CDMA Receiver System Calculator

VERSION 1.10


TITLE:

Typical IS-95 CDMA Receiver, Operational State 4


DUPLEXOR




RX LNA




RX FILTER




MIXER



IF FILTER





G@ f0 in dB	-4.8	-5	-3	15	-10	50
G@ f1 in dB	-4.8	-5	-3	15	-45	50
G@ f2 in dB	-4.8	-5	-3	15	-50	50
IPi in dBm	100	15	100	3	100	-40
NF in dB	4.8	22	3	7	10	5

System BW [kHz] 1250

Eb/No Required [dB] 4.5

Processing Gain [dB] 21.07

Traffic Ch. Offset [dB] -15.60

Calculated System Parameters

System NF = 27.6 dB

System IPi = 13.7 dBm

Sensitivity = -86.323 dBm

System Gain = 42.2 dB

FIG. 5D